CE

ADAM

rWBC

PC Software user manual

NanoEnTek

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Section 1. **Start**

Software installation
introduction

This PC Software is intended to help data management for ADAM-rWBC users.

ADAM-rWBC is an analyzing device that counts the number of residual leukocytes in a blood component for transfusion.

This PC Software can be installed in personal computer.

Software features
· Input barcode ID by keyboard or barcode scanner.
· Input product volume.
· Shows the measurement process.
· The results of the ADAM-rWBC is sent to the PC software automatically when the testing is completed.
· Display total residual WBC and save the data.
· User and data management
  › Two user levels (Master or General user)
  › Master user can access all users, data and history.
  › General user can access his/her own data only.

Section 1. **Start**

Software installation

ADAM-rWBC PC Software installation

Recommended hardware requirements

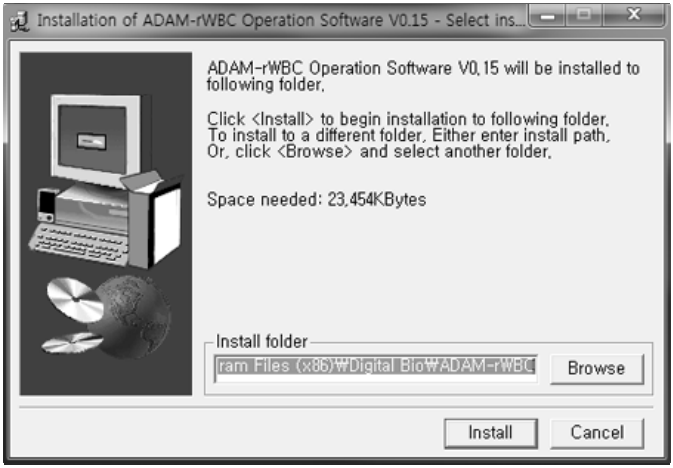
Operating system	Windows 2000 / XP / Vista / 7 / 8
CPU	Pentium III processor 1.0Ghz or faster
RAM	512MB or more
Hard disk	20GB or more

1. Insert the installation CD-ROM into the computer.
Then open the file 'Setup_ADAM-rWBC_v1.xx.exe' .
The start-up dialogue of the software, as shown below, will appear.
Click "Next" to start installation.

Software installation

ADAM-rWBC PC Software installation

2. Default installation path is **C:\Program Files\Digital Bio\ADAM-rWBC.**

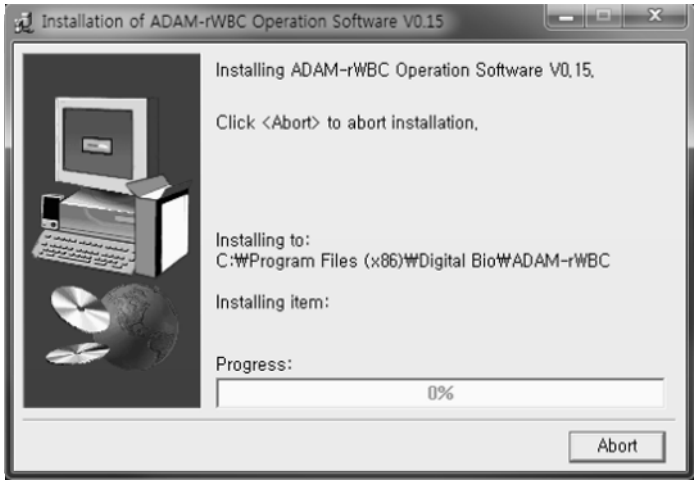

Installation of ADAM-rWBC Operation Software V0.15 - Select ins...
ADAM-rWBC Operation Software V0.15 will be installed to following folder.
Click <Install> to begin installation to following folder.
To install to a different folder, Either enter install path,
Or, click <Browse> and select another folder.
Space needed: 23,454KBytes
Install folder
ram Files (x86)₩Digital Bio₩ADAM-rWBC
Browse
Install
Cancel

3. If you want to change the installation folder, click Browse and choose the location that you want.

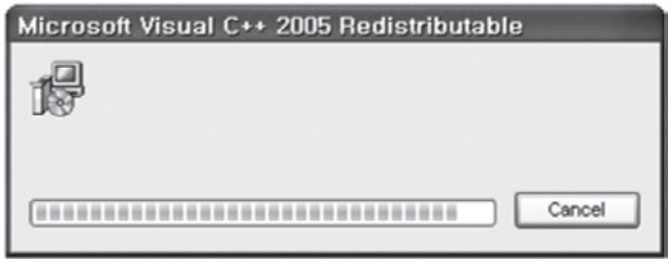
Software installation

ADAM-rWBC PC Software installation

4. Click Install button to continue installation.



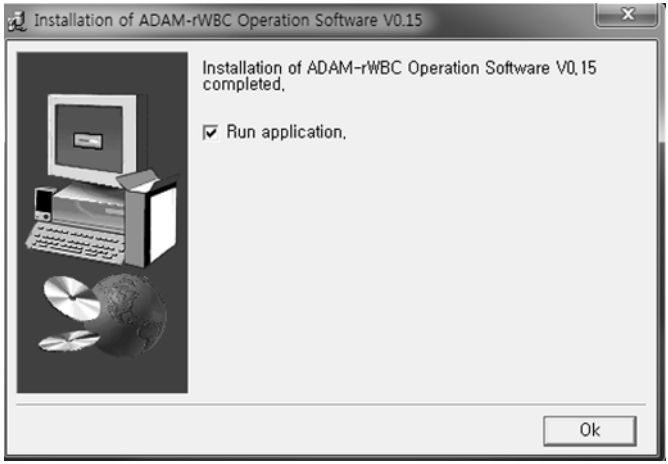
Installation is in progress.

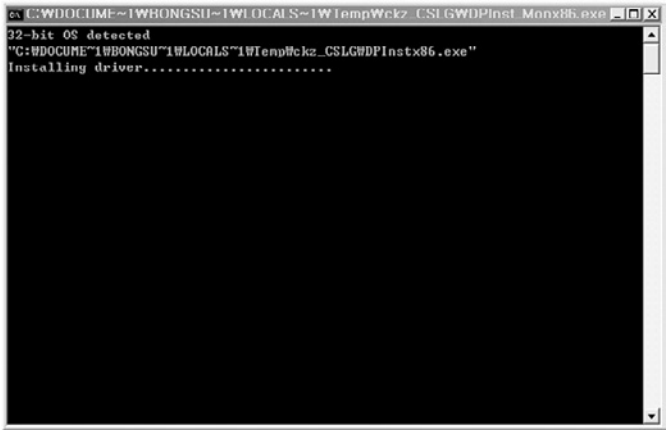


Software installation

ADAM-rWBC PC Software installation

5. When the installation is completed, click ‘OK’ in order to install necessary driver as shown below. This driver is required when connecting user PC to ADAM-rWBC with USB cable.

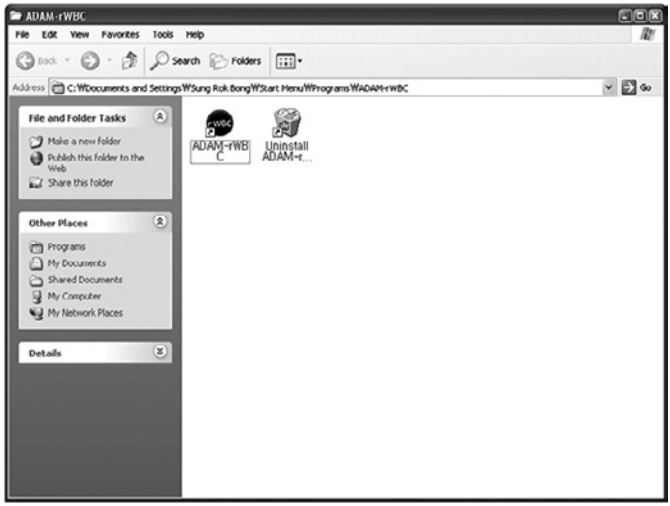

Installation of ADAM-rWBC Operation Software V0.15
Installation of ADAM-rWBC Operation Software V0.15 completed.
Run application.
Ok



Software installation

ADAM-rWBC PC Software installation

6. When the software installation is completed, an explorer window containing the program icons of the installed software opens. The software can be activated by either double-clicking ADAM-rWBC icon or selecting 'ADAM-rWBC' in the Start menu of Windows.



⚠ CAUTION

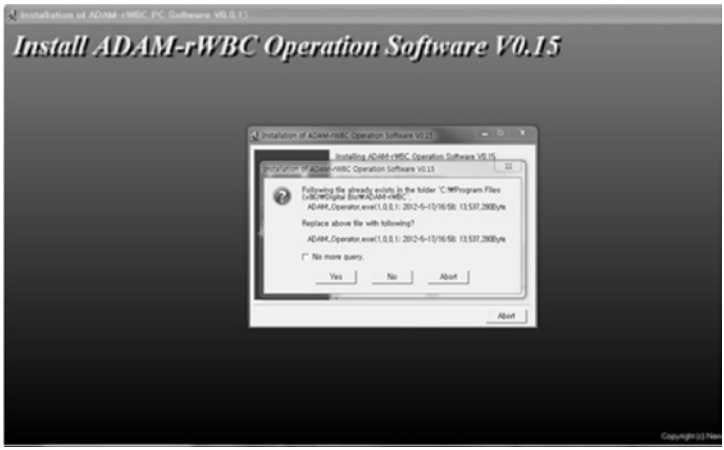
Windows Vista /7 /8, run as administrator on the right mouse button click On the 'ADAM-rWBC' icon.

If you install PC Software on normal user account, the other account users cannot use the software.

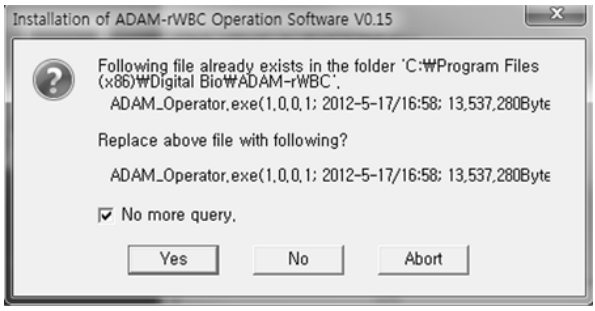
Software installation

ADAM-rWBC
PC Software
installation

7. If the software is about to be re-installed in the folder in which the software has been installed already, following message may appear.



8. The user is asked if he wants to replace existing files with new ones. Select 'No more query'. Continue installation by clicking 'Yes' button.

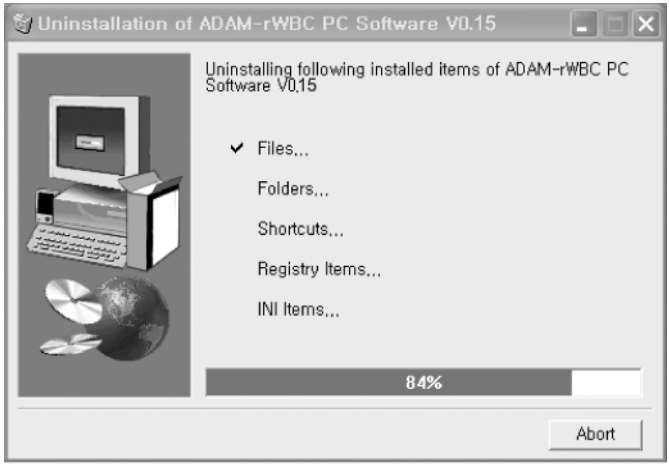


Software uninstallation

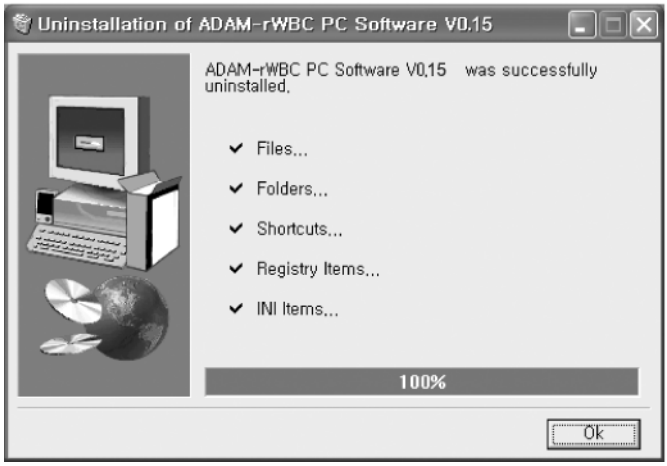
For windows xp /windows vista /windows 7 users

1. From the Start menu, select “Program” -> “ADAM-rWBC”.

2. Select “Uninstall ADAM-rWBC”. The uninstall dialog of the software, as shown below, will appear. Click “Yes” to start uninstall the software.



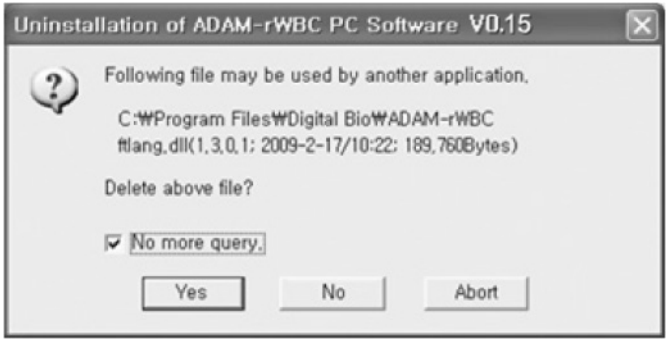
3. When the uninstallation is completed, click “OK”.



Software uninstallation

For windows xp /windows vista /windows 7 users

4. If you see the below message, check “No more query” and click “Yes”.



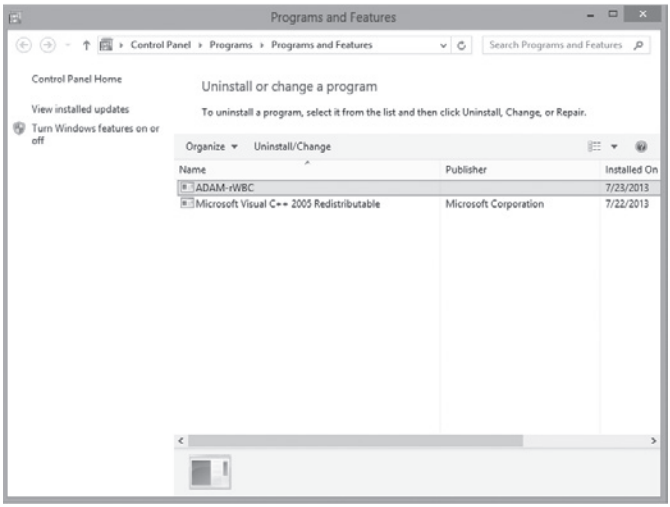
Section 1. **Start**

Software uninstallation

For windows 8 users

1. Find the ADAM-rWBC icon on the Start screen. Right-click the ADAM-rWBC icon. Then you can see the Uninstall menu.

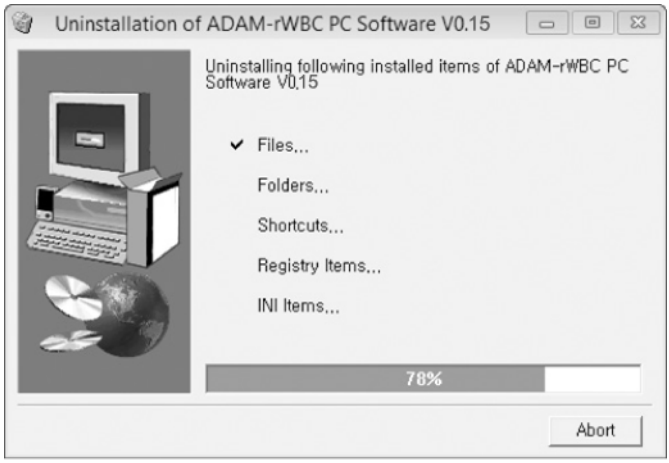
2. Double click the "ADAM-rWBC" on the list.



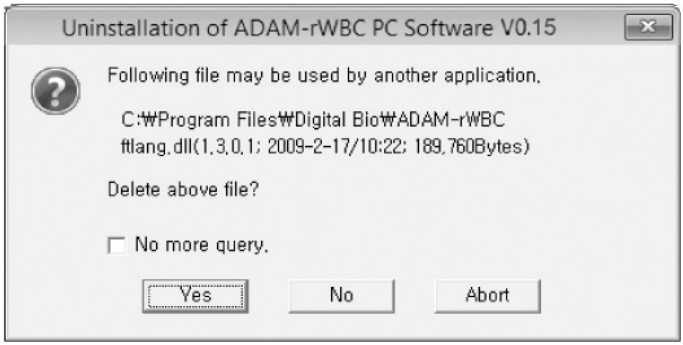
Software uninstallation

For windows 8 users

3. Automatically, the uninstallation starts.



4. If you see the below message, check “No more query” and click “Yes”.



Section 1. **Start**

Connecting To ADAM-rWBC

1. Connect the USB cable between the computer and the ADAM-rWBC.

2. Connect the barcode scanner to PC.
· Do not connect barcode scanner to ADAM-rWBC.

3. Turn on ADAM-rWBC and computer.
· The login button in the PC software will be activated when connection is successful.

Section 2. **Using the software**

Starting the software

Run ADAM-rWBC PC Software.

Master user registration

The first run after installation, the user see the registration screen. When the first user registers, please register as Master. Master of the authority are as follows.

* Master Rights
1) User registration and deletion
2) Search and delete the trace log of all users
3) Generate the experimental data.
4) Data query and deletion for all users

Section 2. **Using the software**

Starting the software

Master user registration

Button	Description
NAME	Specify the user name. There is no limit to the name.
ID	Specify the user ID. There is no limit to the ID.
P/W 1.	Specify the Password. Password must be at least six digits.
P/W 2.	Confirm the password. You must enter the same password as 'P/W1".
Master	Check if you want to register as Master
ID Confirm	Search for the duplicate ID user. You can not use duplicate ID.
ADD	Add the user.
EDIT	Modify the registered user information.
Delete	Delete the registered user.

Section 2. **Using the software**

Login

ADAM-rWBC Login

Button	Description
ID	Enter user ID. Case-sensitive
PW	Enter the password. Case-sensitive
LOG IN	Log in This button will be activated when ADAM-rWBC is connected to PC.
	Minimize
	Log out. When you log out, shutdown time and user information is recorded on the PC Master can check the information of the system usage.

Section 2. **Using the software**

Master user mode

Master screen

If you login as the master, this screen is displayed.

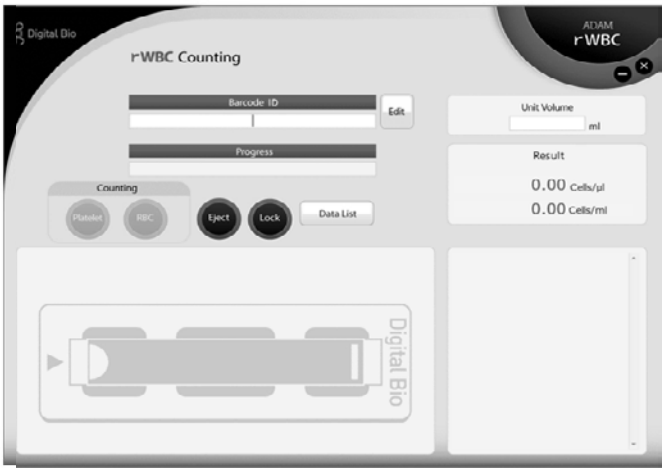
Button	Description
Time in ADAM	Shows the setting time in ADAM-rWBC.
Time in PC	Shows the setting time in PC.
READ	Comparison of PC and ADAM-rWBC setting time.
WRITE	Save the PC setting into ADAM-rWBC.
Counting	Move to the "Counting" screen.
User Management	Move to the screen for adding and editing the user. ※ Refer to page 25-26.
Audit Trail	Move to the quert screen for users. Check the Login or Logout time. Add and delete the user, record check for editing. The query of counting, usage time, result.
✕	Back to the Login screen.

Section 2. **Using the software**

Master user mode

Counting

Counting screen

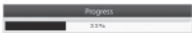


Button	Description
RBC	RBC Counting. ※This button will be activation after reading barcode.
Platelet	Platelet Counting.. ※This button will be activation after reading barcode.
Eject	Eject chip holder out of ADAM-rWBC.
Lock	Lock state of ADAM-rWBC. ※ It is strongly recommended to part ADAM-rWBC before turning it off. It protects the alignment of stage from external shock when the ADAM-rWBC is moved.

Section 2. **Using the software**

Master user mode

Counting

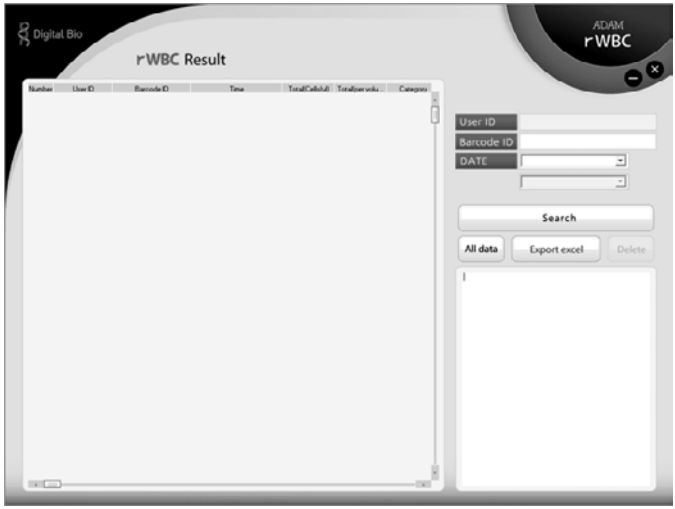
Button	Description
	Display the information of Barcode. For manual entry Barcode ID, press the 'Edit' button.
	Enter the volume of the measured product. The range of the volume is 1 to 1,000 ml. ***Caution:*** ***If the volume is out of range, the warning window will be displayed.***
	Shows the counting progress in ADAM-rWBC.
	The measured result is displayed by µl and volume unit that you specified. Ex. Blood pack capacity is 500 ml.
	Bad sample message will be shown and recorded when ADAM-rWBC detects more than 10 error frames. The error frame occurs when the number of cells is more than 50 in one frame. Please check your sample quality and try again.
	Move to the results screen for counting. General user can view only their results. Master can view the all user's results of the experiment.
	ADAM-rWBC scans 203 frames on the r-Slide, and each frame result is displayed. ***Caution:*** ***Please remove the r-Slide from ADAM-rWBC when the test is completed. If you don't have additional samples to test, Please press the "Lock" button of the instrument.***

Section 2. **Using the software**

Master user mode

Data management

Search the counting result and backup
General user can search and delete for only their own data.

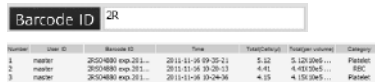


Button	Description
User ID	Search for the user ID. In search process, all ID ṫhat matches the specified string is searched. This is the case-insensitive search. If you log in the general user, this button is not activated. ex)

Section 2. **Using the software**

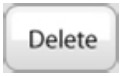
Master user mode

Data management

Button	Description
	Search using Barcode ID. In search process, all Barcode ID that matches the specified string is searched.This is the case-insensitive search. ex) 
	Search for the date. If you search the data in specified criteria, select a date from above and below column. If you only select at the top of the date column, the data is scanned from the selected day to present. Press the button to search, you can specify the date.
	Show all saved data.

Master user mode

Data management

Button	Description
	Specify your search criteria and press to start the search. Enter search terms to search criteria, the data is searched by matched criteria. In search process, all Barcode or user ID that matches the specified string is searched. This is the case-insensitive search.
	The results is saved in the Excel file in Microsoft office program. If you press the 'Show data all' button, you can save the all of the data. If you search the data using 'Search' button, you can save selectively. Data export to Excel as the C: \ Report \ Excel folder is stored by default. File formats are as follows. ADAM-rWBC_NanoEnTek_20100614-145744.xls model name User ID Date Time
	Delete the searched data. If you press the 'All data' button, you can delete all of the data. If you search the data using 'Search' button, you can delete selectively.

Section 2. **Using the software**

Master user mode

User management

Master user mode

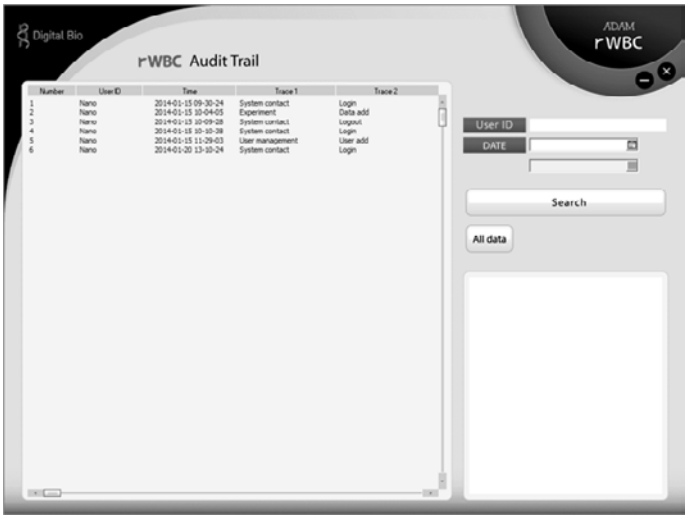
User management

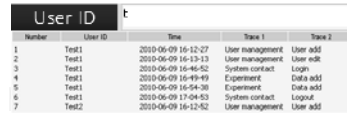
Button	Description
NAME	Enter the user name.
ID	Enter the user ID.
P/W 1.	Enter the password. Password must be at least six characters.
P/W 2.	Confirm the password.
Master	Check to create additional Master's ID/PW
ID Confirm	Search for the duplicate ID user.
ADD	Add additional user.
EDIT	Edit the registered user information.
Delete	Delete the registered user.

Section 2. **Using the software**

Master user mode

Audit trail



Button	Description
User ID	Search for the user ID. In search process, all ID that matches the specified string is searched. This is the case-insensitive search. ex) 
DATE	Search by date If you search the data in specified criteria, select a date from above and below column. If you only select at the top of the date column, the data is scanned from the selected day to present.
Search	Set your search criteria and start searching.
All data	Shows the all record information.

Master user mode

Audit trail

Description of event	
User add	New user added in user management screen
User edit	Modify user information.
User delete	Delete user information.
Login	Login
Logout	Logout
Data add	New data added in calculate screen. The result is displayed in “Trace 2”.
Data delete	Delete selected data. The data deleted in data management screen. The user who deleted the data is displayed in “Trace 2”.
Data search	Search event in data management screen. Search option is displayed in “Trace 2” (User ID, Barcode ID, Date).

Section 2. **Using the software**

General user mode

Button	Description
ID	Enter user ID. Case-sensitive
PW	Enter the password. Case-sensitive
LOG IN	Log in This button will be activated when ADAM-rWBC is connected to PC.
	Log out
	Minimize

Section 2. **Using the software**

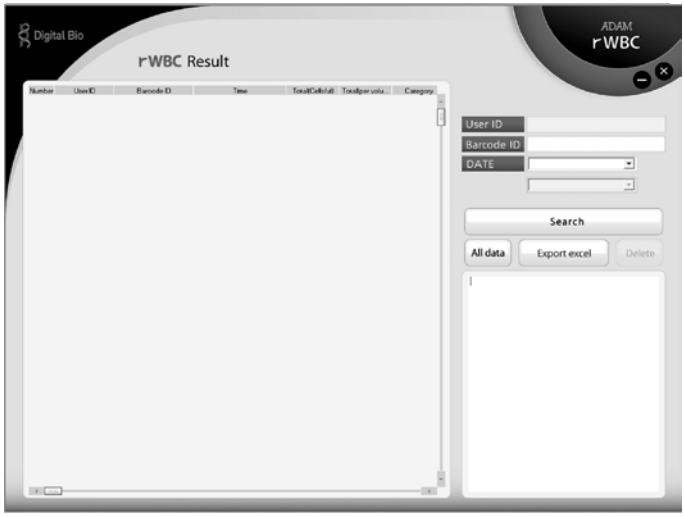
General user mode

Counting

· *See page 20 Counting.*

General user mode

Data management



· *See page 22 Data management.*

Section 2. **Using the software**

Turn off the software

When logout, this alert message is shown.

Before turning off the software, please remove the r-Slide from the ADAM-rWBC: and press the ‘lock’ button of the ADAM-rWBC.

Appendix. **Accessories**

Barcode scanner

Model name: LS2208

PHYSICAL CHARACTERISTICS

Color	Twilight black, Cash register white
Corded	Yes
Dimensions	6 in. H x 2.5 in. W x 3.34 in. D 15.2 cm H x 6.3 cm W x 8.4 cm
Handheld	Yes
Power source	Host power or external power supply; depends on host type
Voltage and current	5 volts +/- 10% at 130 mA
Weight	5.15 oz./146 gm

PERFORMANCE CHARACTERISTICS

Decode capability1	D, See data sheet f or full list of supported symbologies
Depth of field	From contact to 17 in./43 cm on 100% U.P.C./EAN symbols
Interfaces supported	IBM, Keyboard wedge, RS-232, Synapse, USB, Wand
Minimum resolution2	20% minimum reflective diff erence
Pitch3	2 +/-65 degrees
Roll (Tilt)4	1 +/-30 degrees
Scan pattern	Single line
Skew (Yaw)5	3 +/-60 degrees
Technology	Laser

Appendix. **Accessories**

Barcode scanner

REGULATORY SPECIFICATIONS

EMC	FCC Part 15 Class B , ICES 003 Class B
Electrical Safety	UL 60950-1, C22.2 No.60950-1, EN 60950-1, IEC 60950-1
Environmental	RoHS Directive 2002/95/EEC
Laser Safety[7]	EN 60825-1, IEC 60825-1, 21CFR1040.10

USER ENVIRONMENT

Ambient light immunity	Immune to direct exposure of normal office and factory lighting conditions, as well as direct exposure to sunlight
Drop specifications	Unit functions normally after repeated 5 ft./1.5 m drops to concrete
Operating temperature	Operating temperature 32° to 122° F/0° to 50° C
Storage temperature	- 40° to 158° F/-40° to 70° C

Scanner warranty

5 years (60 months) from date of shipment. The Liquid Polymer Scan Element includes a limited lif etime warranty. See full warranty for details.

Technical support

Visit the our Website at **www.nanoentek.com** for :

· Technical resources, including manuals, FAQs, etc.

· Technical support contact information

· Additional product information and special offers.

For more information or technical assistance, please call or email.

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ADAM-rWBC PC Software user manual

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The information in this manual is described as accurately as possible. Firmware and software changes and updates may change without prior consent or notification.

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V.0.6 Date : DEC 2013
V.1.6 Date : FEB 2014

ADAM-rWBC

NESMU-ARCSP-001E (V.1.6)

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